

ZRapid iSLM160 Ultimate Technical Specifications

LASER	
Type	Fiber Laser (IPG)
Wavelength	1064nm
Laser Power	500W (upgrade up to 2x500W)
RECOATING SYSTEM	
Process	Single or double side coating
Normal build style	0.05mm
Quick build style	0.05-0.15mm
Precision build style	0.02-0.05mm
OPTICAL & SCANNING	
Beam (diameter @ 1/e ²):	0.04~0.15 mm
Focus style	Scan Lab High-speed galvanometer
Reference Building rate	2~15 cm ³ /h
Blank Jumping Speed	10.0 m/s (recommended)
BUILD VOLUME	
Volume	Approx. 5L
XYZ platform	160mm(X) x 160mm(Y) x 210mm (Z) including building platform
Heating style	Precision resistance wire heating
Gas shielded	Nitrogen, argon
SOFTWARE	
Network	Windows 10 Pro, Ethernet, IEEE802.3
Control Software	iSLM ZRapid Software
Data Preparation Software	3D Layer, Materialise Software (optional)
Compatible formats:	SLC file, CLI file, STL file
INSTALLATION CONDITION	
Power	220-240VAC 50/60Hz, Single-phase, 16Amps
Ambient temperature	20-26°C
Relative humidity	Less than 40%, non-condensing
Machine Size	1.10m(W) X 1.30m(D) X 1.85m(H)
Machine Weight	Approx. 1000 Kg
WARRANTY	
Laser	5000 hours or 12months (whichever comes first)
Main Machine	one (1) year from the date of installation date



The 3D Printer Experts



ZRapid iSLM160 Ultimate

Selective Laser Melting System (SLM)

Industrial Additive Manufacturing Solution



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ZRapid iSLM 160 Ultimate

Affordable Entry Level Solution

Technology: Selective Laser Melting

Built Size (XY): 160mm(X) x 160mm(Y)

Built Size (Z): 210mm(Z) including building platform

Side Access Door

Easy access to the printer chamber without disturbing the atmosphere inside



Glove Box Design Front Door

Allows daily maintenance without contact with powder material



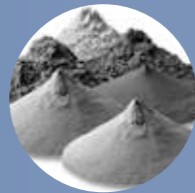
Extended Filter Change Intervals

Unique filter-cleaning automation reduces cost and labor



Wide Variety of Materials

Stainless Steel / Die Steel / Titanium Alloy / Aluminum Alloy / Co-Cr Alloy / Nickel Alloy / Cuprum, etc



iSLM160 Ultimate Technical advantages

High Accuracy: Achieves up to 0.05mm, ensuring precise manufacturing

Efficient Optical Scanning: High-speed scanning galvanometer with adjustable beam diameter (0.04~0.15 mm) enhances productivity

Top Components: iSLM160 is manufactured with high quality components such as IPG Laser, Scanlab Galvos, Siemens PLCs, Omron sensors

Open Parameters-Open Materials: more than 200 parameters are available to users

Open Software: GCode editing and custom parameters

Build Volume Side Reducer

Add on device that enables material testing, using minimal amount of powder



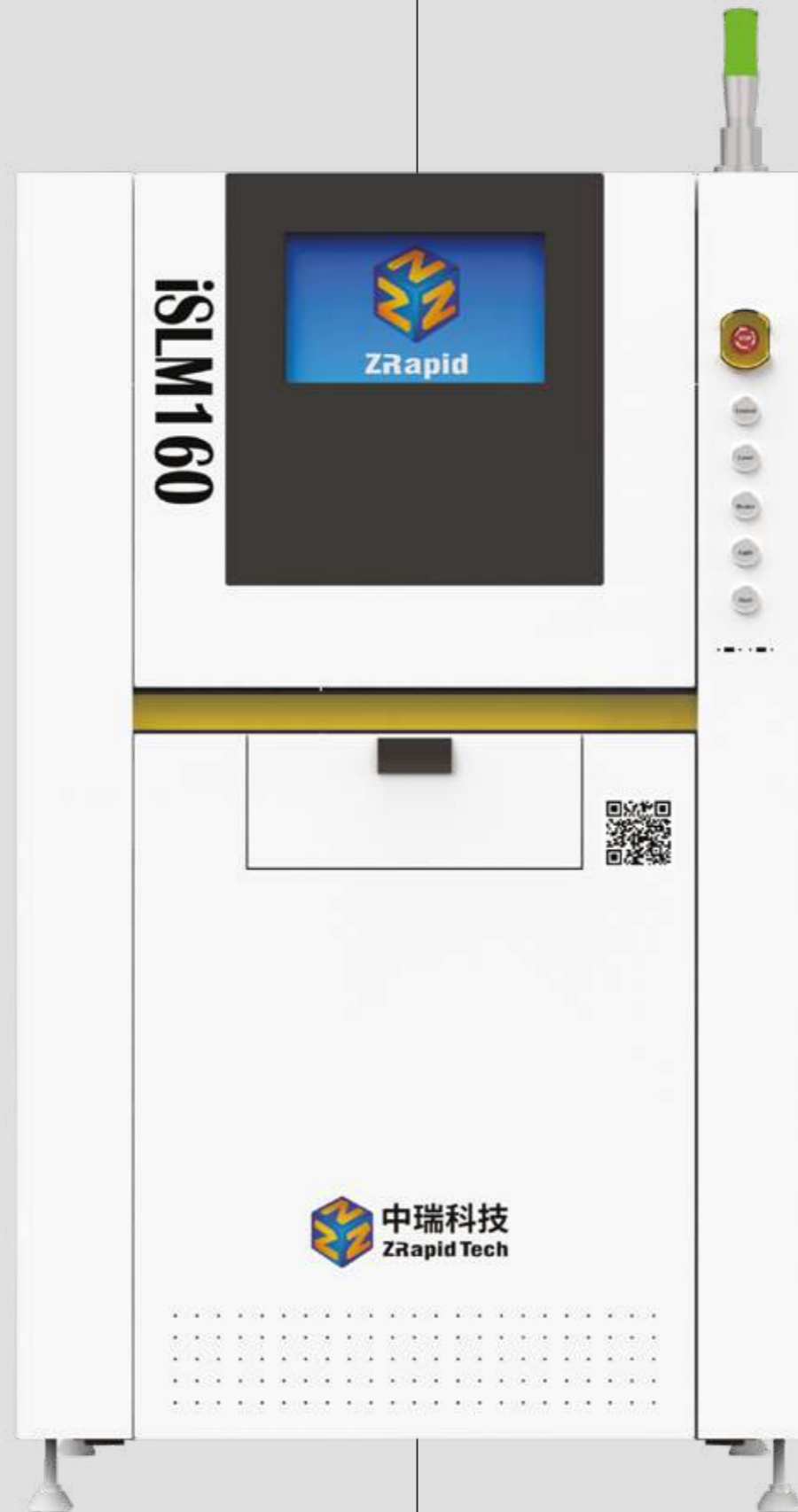
Single or Double Side Recoating

1/2 material needed and 1/2 time saved



Laser Power Upgrade

Depending on the model, laser power can be up to 1kW (2x500W)



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